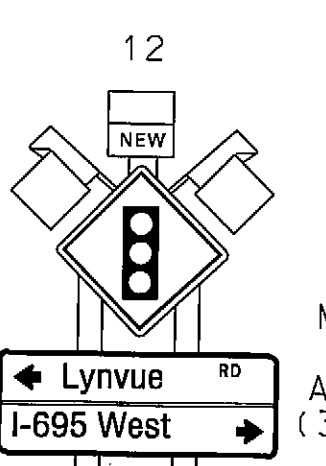
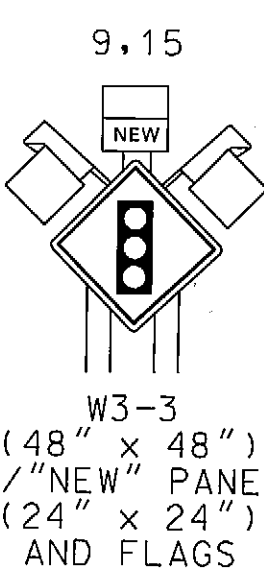
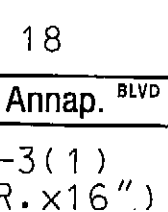
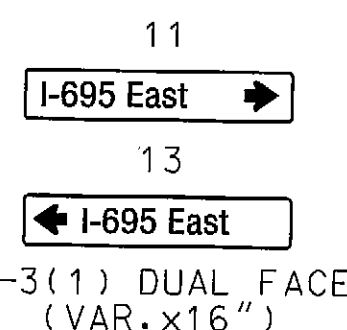


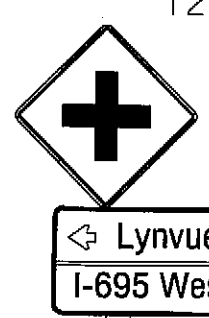


MD 648 IS ASSUMED TO RUN  
IN A NORTH-SOUTH DIRECTION



EXISTING SIGN  
TO BE REMOVED

EXISTING SIGN  
TO BE RELOCATED



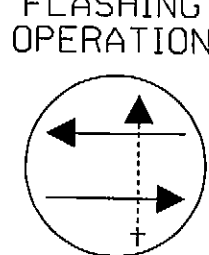
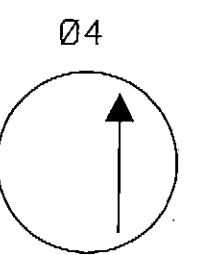
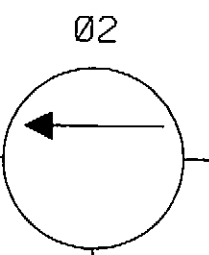
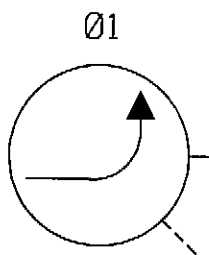
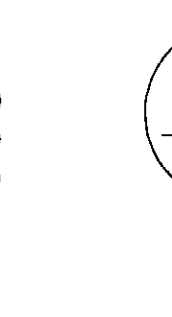
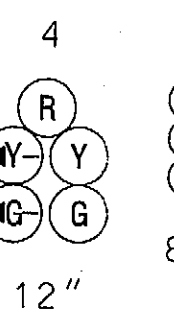
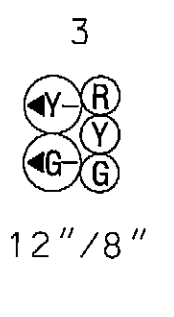
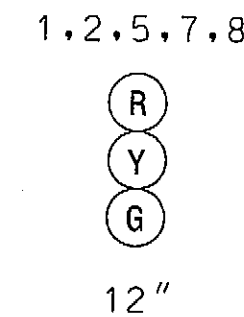
**SPECIAL NOTE:**  
INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO  
TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES.  
EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN.  
INTO HANDHOLE.

PROPOSED VIDEO  
DETECTION CAMERA

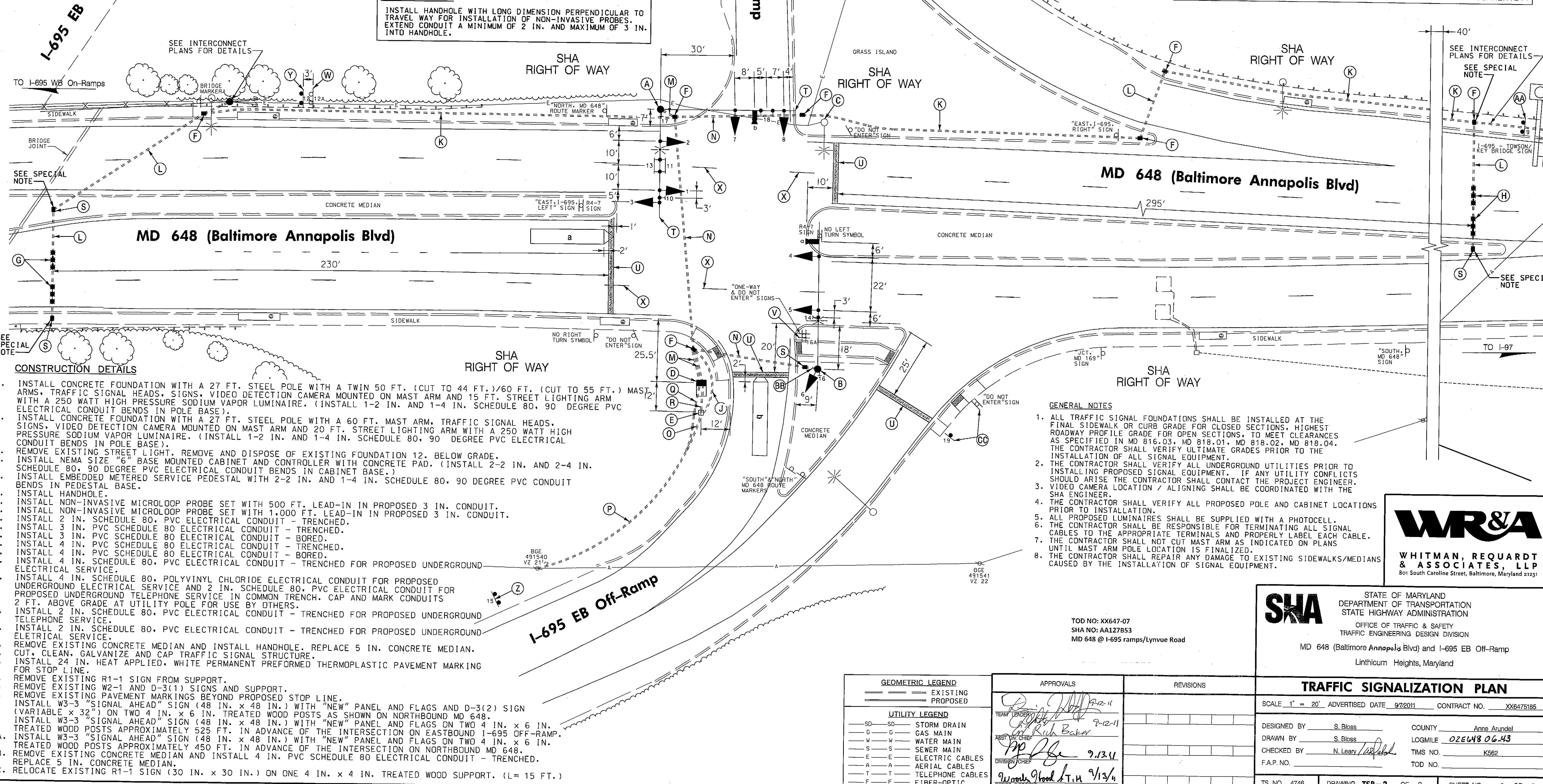
PROPOSED SIGNALS

NEMA PHASING

FLASHING  
OPERATION



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A TWIN 50 FT. (CUT TO 44 FT.)/60 FT. (CUT TO 55 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 60 FT. MAST ARM, TRAFFIC SIGNAL HEADS, PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- REMOVE EXISTING STREET LIGHT. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12. BELOW GRADE.
- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
- INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
- INSTALL HANDHOLE.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
- INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
- INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE IN COMMON TRENCH. CAP AND MARK CONDUITS 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
- INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE.
- INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
- REMOVE EXISTING CONCRETE MEDIAN AND INSTALL HANDHOLE. REPLACE 5 IN. CONCRETE MEDIAN.
- CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
- INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- REMOVE EXISTING R1-1 SIGN FROM SUPPORT.
- REMOVE EXISTING W2-1 AND D-3(1) SIGNS AND SUPPORT.
- REMOVE EXISTING PAVEMENT MARKINGS BEYOND PROPOSED STOP LINE.
- INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) WITH "NEW" PANEL AND FLAGS AND D-3(2) SIGN (VARIABLE x 32") ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS AS SHOWN ON NORTHBOUND MD 648.
- INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) WITH "NEW" PANEL AND FLAGS ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS APPROXIMATELY 525 FT. IN ADVANCE OF THE INTERSECTION ON EASTBOUND I-695 OFF-RAMP.
- INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) WITH "NEW" PANEL AND FLAGS ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS APPROXIMATELY 450 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND MD 648.
- REMOVE EXISTING CONCRETE MEDIAN AND INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. REPLACE 5 IN. CONCRETE MEDIAN.
- RELOCATE EXISTING R1-1 SIGN (30 IN. x 30 IN.) ON ONE 4 IN. x 4 IN. TREATED WOOD SUPPORT. (L= 15 FT.)

GENERAL NOTES

- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS/MEDIANS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.

**WR&A**  
**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
801 South Caroline Street, Baltimore, Maryland 21201



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 648 (Baltimore Annapolis Blvd) and I-695 EB Off-Ramp  
Linthicum Heights, Maryland

TOD NO: XX647-07  
SHA NO: AA127B53  
MD 648 @ I-695 ramps/Lynvue Road

GEOMETRIC LEGEND	
---	EXISTING
---	PROPOSED
UTILITY LEGEND	
---	STORM DRAIN
---	GAS MAIN
---	WATER MAIN
---	SEWER MAIN
---	ELECTRIC CABLES
---	AERIAL CABLES
---	TELEPHONE CABLES
---	FIBER-OPTIC

APPROVALS	
TEAM LEADER	9/12/11
ASST. TRV. CHIEF	9/12/11
DIVISION CHIEF	9/13/11
OFFICE DIRECTOR	9/13/11

REVISIONS	

TRAFFIC SIGNALIZATION PLAN			
SCALE 1" = 20'	ADVERTISED DATE 9/2/2011	CONTRACT NO. XX6475185	
DESIGNED BY S. Bloss	COUNTY Anne Arundel		
DRAWN BY S. Bloss	LOGMILE 02648.06.43		
CHECKED BY N. Leary	TMS NO. K562		
F.A.P. NO.	TOD NO.		
TS NO. 4746	DRAWING TSP-2	OF 3	SHEET NO. 2 OF 6